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Dated: July 12, 2004

Signature:

Kurt T. Buechle
(Kurt T. Buechle)

Docket No.: 28967/39140B
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kari Alitalo et al.

Application No.: 10/772,927

Confirmation No.: 7264

Filed: February 4, 2004

Art Unit: 1653

For: VEGF-B AND PDGF MODULATION OF
STEM CELLS

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

References from section B and C on the PTO/SB/08 are attached.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure statement shall not be construed


to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 28967/39140B. A copy of this paper is enclosed.

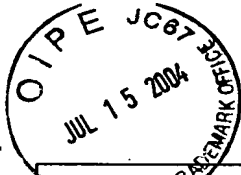
Dated: July 12, 2004

Respectfully submitted,

By 

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Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 28967/39140B	Serial No. 10/772,927
 <p>INFORMATION DISCLOSURE STATEMENT</p>		Applicant Alitalo et al.	
		Filing Date February 4, 2004	Group 1653

U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Issue or Publication Date	Name	Class	Subclass	Filing Date If Appropriate
	A1	4,845,075	07-04-1989	Murray et al.	514	12	
	A2	4,849,407	07-18-1989	Murray et al.	514	12	
	A3	4,889,919	12-26-1989	Murray et al.	530	351	
	A4	5,128,321	07-07-1992	Murray et al.	514	12	
	A5	5,149,792	09-22-1992	Thomason	530	399	
	A6	5,219,759	06-15-1993	Heldin et al.	435	320.1	
	A7	5,272,064	12-21-1993	Thomason	435	69.1	
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	A16	5,776,755	07-07-1998	Alitalo et al.	435	194	
	A17	5,840,693	11-24-1998	Eriksson et al.	514	12	
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	A19	5,895,755	04-20-1999	Murray	435	69.4	
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U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Issue or Publication Date	Name	Class	Subclass	Filing Date If Appropriate
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	A45	6,673,343	01-06-2004	Bennett et al.	424	133.1	
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FOREIGN PATENT DOCUMENTS								
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	B1	EP 0935001	08-11-1999	EPO				
	B2	WO 96/26736	09-06-1996	PCT				
	B3	WO 96/39421	12-12-1996	PCT				
	B4	WO 97/12972	04-10-1997	PCT				
	B5	WO 98/02543	01-22-1998	PCT				
	B6	WO 00/18212	04-06-2000	PCT				
	B7	WO 00/27879	05-18-2000	PCT				
	B8	WO 00/45835	08-10-2000	PCT				
	B9	WO 02/07514	01-31-2002	PCT				
	B10	WO 02/36131	05-10-2002	PCT				
	B11	WO 02/070008	09-12-2002	PCT				
	B12	WO 03/014326	02-20-2003	PCT				
	B13	WO 03/074005	09-12-2003	PCT				
	B14	WO 2004/009773	01-29-2004	PCT				

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C2	Carmeliet et al., "Synergism Between Vascular Endothelial Growth Factor and Placental Growth Factor Contributes to Angiogenesis and Plasma Extravasation in Pathological Conditions," Nature Medicine, 7(5):575-583, (2001).	
C3	Pietras et al., "PDGF Receptors as Cancer Drug Targets," Cancer Cell, 3:439-443, (May 2003).	
C4	Tepper, et al., "Endothelial Progenitor Cells: The Promise of Vascular Stem Cells for Plastic Surgery," Plastic and Reconstructive Surgery, 111(2): 846-854, (February 2003).	
C5	Hattori, et al., "Placental Growth Factor Reconstitutes Hematopoiesis by Recruiting VEGFR1 ⁺ Stem Cells from Bone-Marrow Microenvironment," Nature Medicine, 8(8):841-849, (August 2002).	
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C9	Fan et al., "Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) in the Management of Cancer," in vivo 5:571-577, (1991).	

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
	C10	Aase et al., "Vascular Endothelial Growth Factor-B-Deficient Mice Display an Atrial Conduction Defect," Circulation, (July 17, 2001).
	C11	Carmeliet et al., "Synergism Between Vascular Endothelial Growth Factor and Placental Growth Factor Contributes to Angiogenesis and Plasma Extravasation in Pathological Conditions," Nature Medicine 7(5):575-583, (May 2001).
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	C14	Smits et al., "Coexpression of Platelet-Derived Growth Factor α and β Receptors on Medulloblastomas and Other Primitive Neuroectodermal Tumors is Consistent with an Immature stem Cell and Neuronal Derivation," Laboratory Investigation, 74(1):188-198, (1996).
	C15	Ijichi et al., "Ex Vivo Gene Delivery of Platelet-Derived Growth Factor Increases O-2A Progenitors in Adult Rat Spinal Cord," Gene Therapy, 3:389-395, (1996).
	C16	Franklin et al., "Transplanting Oligodendrocyte Progenitors into the Adult CNS," J. Anat., 190:23-33, (1997).
	C17	Li et al., "Isoform-Specific Expression of VEGF-B in Normal Tissues and Tumors," Growth Factor, 19:49-59, (2001).
	C18	Gerber et al., "VEGF Regulates Haematopoietic Stem Cell Survival by an Internal Autocrine Loop Mechanism," Nature, 417:954-958, (June 27, 2002).
	C19	Kaushal et al., "Functional small-Diameter Neovessels Created Using Endothelial Progenitor Cells Expanded Ex Vivo," Nature Medicine, 7(9):1035-1040, (September 2001).
	C20	Tepper et al., "Endothelial Progenitor Cells: The Promise of Vascular Stem Cells for Plastic Surgery," Plastic and Reconstructive Surgery, 111(2):846-854, (February 2003).
	C21	Jiang et al., "Multipotent Progeintor Cells can be Isolated from Postnatal Murine Bown Marrow, Muscle, and Brain," Experimental Hematology, 30:896-904, (2002).
	C22	Su et al., "Platelet-Derived Growth Factor Promotes Ex Vivo Expansion of CD34 ⁺ Cells from Human Cord Blood and Enhances Long-Term Culture-Initiating Cells, Non-Obese Diabetic/Severe Combined Immunodeficient Repopulating Cells and Formation of Adherent Cells," British Journal of Haematology, 117:735-746, (2002).
	C23	Foss et al., "Peripheral Blood Progenitor Cell Grafts Contain High Levels of Platelet-Secreted Mediators," Transfusion, 41:1431-1437, (November 2001).
	C24	Su et al., "Platlet-Derived Growth Factor Enhances Ex Vivo Expansion of Megakaryocytic Progenitors from Human Cord Blood," Bone Marrow Transplantation 27:1075-1080, (2001).
	C25	Kaminski et al., "Basis of Hematopoietic Defects in Platelet-Derived Growth Factor (PDGF)-B and PDGF β -receptor Null Mice," Blood, 97(7):1990-1998, (April 1, 2001).
	C26	Hiragun et al., "A Fibrogenic Cytokine, Platelet-Derived Growth fActor (PDGF), Enhances Mast Cell Growth Indirectly via a SCF- and Fibroblast-Dependent Pathway," J. Invest Dermatol, 111:213-217, (1998).

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February 4, 2004	1653		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
	C27	Katz et al., "Effect of Platelet-Derived Growth factor on Enriched Populations of Haemopoietic Progenitors from Patients with Chronic Myeloid Leukaemia," Leukemia Research, 11(4):339-344, (1987).
	C28	Matthias Clauss, Ph.D., "Molecular Biology of the VEGF and the VEGF Receptor Family," Seminars In Thrombosis And Hemostasis, 26(5):561-569, (2000).

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